What's New in Federal Energy Management

Program Overview



Federal Energy Showcases

Federal buildings feature advanced technologies and practices for energy efficiency, water conservation, and renewable energy.

To promote widespread Federal energy efficiency, agencies are "showcasing" their best energy efficiency, water conserving, and solar and other renewable energy technologies.

To highlight these successful energy-efficient projects, Executive Order 12902 directs agencies to designate at least one newly constructed or existing building as a showcase facility. At existing facilities, agencies must also try to incorporate cogeneration and indoor air quality improvements. Agencies are directed to develop and implement effective plans to make these showcase projects happen.

Project successes will show the strength of partnering with other agencies, energy services companies, utilities, and national laboratories, and of using the U.S. Department of Energy Federal Energy Management Program (FEMP) as a resource. The goal is Federal facilities operating at peak efficiency.

What are the benefits?

The benefits of showcasing facilities are considerable:

- Awareness of energy-efficient and renewable energy technologies applicable to all Federal facilities is increased.
- Technology transfer is facilitated through partnerships between agencies, utilities, manufacturers, and others.
- Better projects are implemented through direct design assistance to selected showcase facilities.
- Agency facilities are recognized for their efforts.

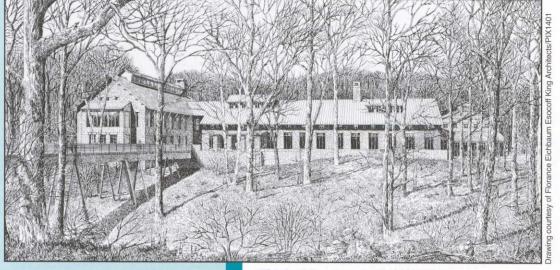
How is a site selected for a showcase demonstration?

Executive Order 12902 provides the following guidelines for designating buildings as showcase facilities:

- Buildings receive a high number of non-Federal visitors.
 - Features of a project are replicable.
 - Visitors can learn from site displays.
 - Candidate buildings have historical significance.

FEMP suggests that the sites have an energy champion, use innovative financing methods, and be able to measure actual savings.

Agencies can designate their headquarters as showcase facilities or a more unique site. A few agencies have selected showcase projects at sites in different regions across the country.



This building is part of a 365,000-squarefoot U.S. Fish and Wildlife Service National Education and Training Center that will incorporate passive solar design.

How is a showcase facility created?

Agencies can use the following steps to create showcase facilities:

- · Determine if assistance is needed to develop a required general plan for implementating showcase demonstrations
- Identify showcases for designation (required by the Executive Order)
- Use or obtain a high-quality energy
- · Seek design assistance and develop partnerships.

What kinds of technologies are featured?

As of March 1995, 47 projects in 17 agencies have been identified as showcase projects. Nearly 90% of the projects involve high-efficiency lighting, and 70% will include the installation of more efficient heating, ventilating, and cooling systems.

Lighting projects include highenergy-saving lighting retrofits, which incorporate occupancy sensors and daylighting strategies. Chiller projects involve replacing existing electric chillers with high-efficiency ones that do not use chlorofluorocarbons.

Solar energy and other renewables are being considered for about half the showcase facilities. The renewable technology most favored is solar water heating, which is planned for use in more than one-third of the identified projects. Other technologies include:

- Energy management control systems
- Cogeneration
- Building envelope
- Landscape improvements.

How can agencies fund showcase facility projects?

FEMP offers several methods to fund showcase facility projects:

- **Energy Savings Performance Con**tracting—FEMP provides direct project assistance, broad policy guidance, and training materials.
- Utility incentives—FEMP works directly with other Federal agencies and utilities to ensure that individual facilities take maximum advantage of the utility-sponsored financial and technical assistance programs.

- Federal Energy Efficiency Fund— FEMP will help agencies leverage private-sector resources to finance energy efficiency, water conservation, and renewable energy projects in Federal facilities.
- Agency appropriations and operations and maintenance—Agencies can use existing appropriations for investments in energy efficiency. Showcasing facilities does not necessarily cost more; funds are just invested more wisely.

How does FEMP help agencies?

FEMP provides the following services to help agencies create showcase

- Design Assistance—The design assistance program provides agencies with direct project implementation support and serves as the central focus for expanding the use of renewable energy in Federal facilities.
- SAVEnergy Action Plans—Facility managers are provided with specific action plans for installing measures that are monitored through a projecttracking system. The program helps agencies identify the best, most costeffective energy, water, and renewable energy projects.
- Increased Technology Awareness— Support is provided to all Federal agencies to facilitate information transfer on energy and water resource management within the Federal and private sectors.
- **Development of Promotional** Materials—Federal agencies receive support through publications and electronic media, which help facility managers make the best decisions on energy-saving opportunities.
- Interagency Coordination—FEMP is the lead office for coordinating the implementation of the Executive Order. It facilitates partnerships between agencies and the private sector to assist in leveraging funding and other services.

What are some current showcase projects?

The U.S. Fish and Wildlife Service is designating a new training center in the mountains of West Virginia as one of its showcase projects. Campus facilities feature passive solar design, energy-efficient building systems, materials with high recycled content. materials and finishes with low environmental impact, and configuration of storm water management systems as demonstration wetlands.

The Denver Federal Center will demonstrate water-efficient technologies at a typical Federal office building. The demonstrations represent a partnership between Federal agencies, a water utility, and four manufacturers. Low-water-use plumbing fixtures and a landscape irrigation control system will be installed, evaluated, and reported on.



For More Information

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